LIST OF PENDING CLAIMS

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(Amended Once) An apparatus for cleaning an irradiated nuclear fuel APR 1 6 2003

GROUP 3600 21. assembly, comprising:

a housing configured to receive an irradiated nuclear fuel assembly; and

a plurality of ultrasonic transducers that feach produce omnidirectional ultrasonic energy waves and positioned on said housing.

- The apparatus of claim 21, wherein said housing is configured to receive an 22. irradiated nuclear fuel assembly comprising an array of cylindrical rods.
- 23. (Amended Once) The apparatus of claim 21, wherein said housing comprises an elongated housing having a bottom end and further comprising a base plate attached to said bottom end of said elongated housing to support said elongated housing.
- 24. The apparatus of daim 21, wherein said housing comprises an elongated structure and wherein said plurality of ultrasonic transducers is positioned along an entire length of said elongated structures
- 25. The apparatus of claim 21, wherein each of said ultrasonic transducers comprises an elongated rod having a first end and a second end; a first transducer at said first end; and a second transducer at said second end;

wherein said housing comprises an elongated structure that extends in a predetermined direction; and

wherein each of said elongated rods is positioned substantially parallel to said predetermined direction.

- 26. The apparatus of claim 25, wherein said plurality of ultrasonic transducers is positioned along an entire length of said elongated structure.
- 27. The apparatus of claim 21, wherein said housing comprises an elongated, rectangular structure having four sides and wherein said plurality of ultrasonic transducers is positioned on each of said four sides.

The apparatus of claim 27 wherein each of said ultrasonic transducers comprises an elongated rod having a first end and a second end; a first transducer at said first end; and a second transducer at said second end; and wherein each of said elongated rods is positioned substantially parallel to a direction of elongation of said elongated, rectangular structure.

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29. (New) The apparatus of claim 21, wherein said housing is configured to receive an irradiated boiling water reactor nuclear fuel assembly.